

Scripting Engine

```
-eC Run default scripts
--script=<ScriptName>|
<ScriptCategory>|<ScriptDir>...
    Run individual or groups of scripts
--script-args=<name1>=Value1,...>
    Use the list of script arguments
--script-updatedb
    Update script database
```

Script Categories

Nmap's script categories include, but are not limited to, the following:

auth: Utilize credentials or bypass authentication on target hosts.

broadcasts: Discover hosts not included on command line by broadcasting on local network.

brute: Attempt to guess passwords on target systems, for a variety of protocols, including http, SSH, IM, MySQL, VNC, etc.

default: Scripts run automatically when -eC or -A are used.

discovery: Try to learn more information about target hosts through public sources of information, SNMP, directory services, and more.

dos: May cause denial of service conditions in target hosts.

exploits: Attempt to exploit target systems.

external: Interact with third-party systems not included in target list.

fuzzer: Send unexpected input in network protocol fields.

intrusive: May crash target, consume excessive resources, or otherwise impact target machines in a malicious fashion.

malware: Look for signs of malware infection on the target hosts.

safe: Designed not to impact target in a negative fashion.

version: Measure the version of software or protocol spoken by target hosts.

vuln: Measure whether target systems have a known vulnerability.

Notable Scripts

A full list of Nmap Scripting Engine scripts is available at <http://nmap.org/nsedoc/>

Some particularly useful scripts include:

dns-zone-transfer: Attempts to pull a zone file (AXFR) from a DNS server.

```
$ nmap --script dns-zone-transfer.nse --script-args dns-zone-transfer.domain=<domain> -p53 <hosts>
```

http-robots.txt: Harvests robots.txt files from discovered web servers.

```
$ nmap --script http-robots.txt <hosts>
```

smb-brute: Attempts to determine valid username and password combinations via automated guessing.

```
$ nmap --script smb-brute.nse -p445 <hosts>
```

smb-psexec: Attempts to run a series of programs on the target machine, using credentials provided as scriptargs.

```
$ nmap --script smb-psexec.nse --script-args smbuser=<username>, smbpass=<password>[,config=<config>] -p445 <hosts>
```

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v1.0

POCKET REFERENCE GUIDE
SANS Institute
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Base Syntax

```
! nmap [ScanType] [Options] [targets]
```

Target Specification

IPv4 address: 192.168.1.1

IPv6 address: ADDR:CIDR::[FF::eth0]

Host name: www.target.tgt

IP address range: 192.168.0-255.0-255

CIDR block: 192.168.0.0/16

Use file with lists of targets: -iL <filename>

Target Ports

No port range specified scans 1,000 most popular ports

-F Scan 100 most popular ports

-p<port1>-<port2> Port range

-p<port1>,<port2>,... Port list

-pU:53,U:110,T20-445 Mix TCP and UDP

-e Scan linearly (do not randomize ports)

--top-ports <n> Scan n most popular ports
-p-65535 Leaving off initial port in range makes Nmap scan start at port 1

-p0- Leaving off end port in range makes Nmap scan through port 65535

-p- Scan ports 1-65535

Sans Pocket Reference Guide

Michael Hoelscher



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